FIG. 1

~~[図1]~~

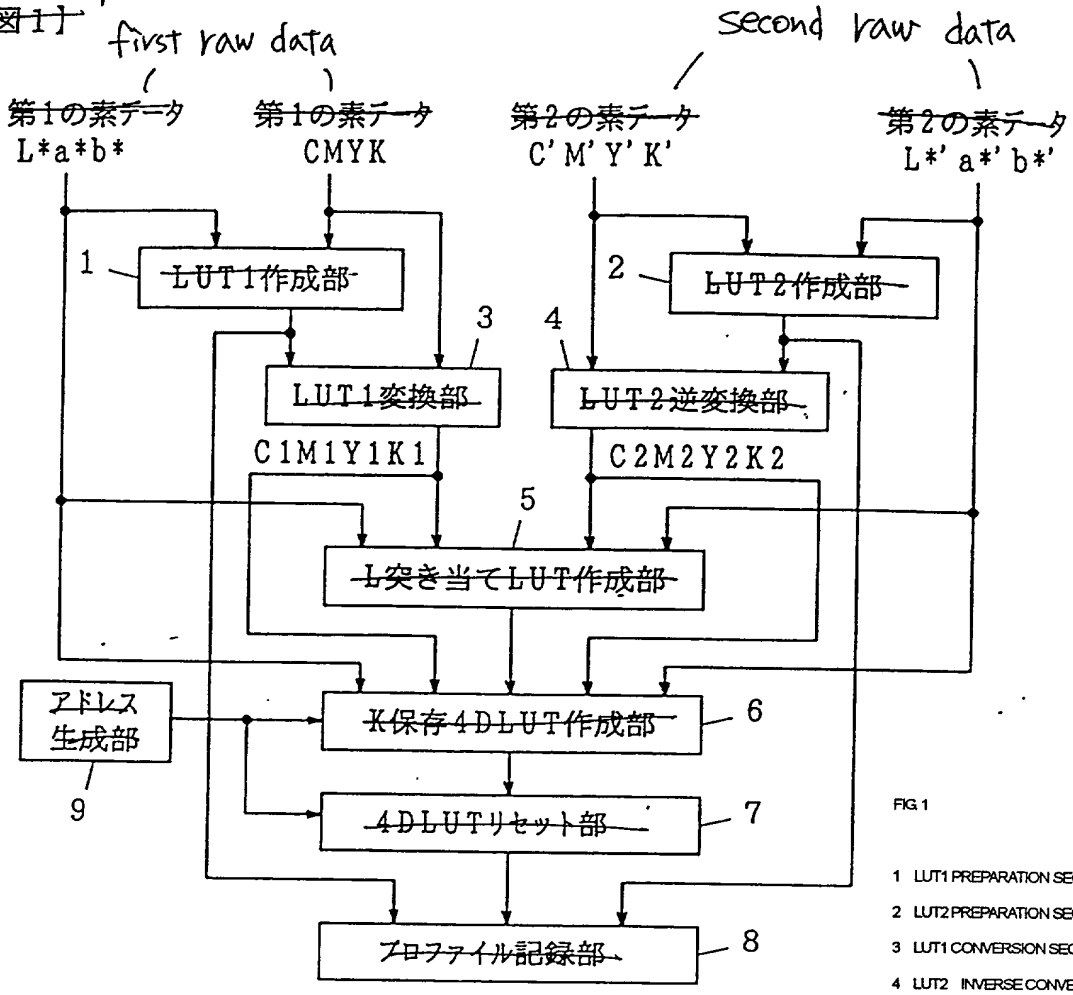


FIG. 1

1 LUT1 PREPARATION SECTION
2 LUT2 PREPARATION SECTION
3 LUT1 CONVERSION SECTION
4 LUT2 INVERSE CONVERSION SECTION
5 L MATCHING LUT PREPARATION SECTION
6 K PRESERVATION 4DLUT PREPARATION SECTION
7 4DLUT RESET SECTION
8 PROFILE RECORD SECTION
9 ADDRESS GENERATION SECTION

~~[図2]~~ FIG. 2

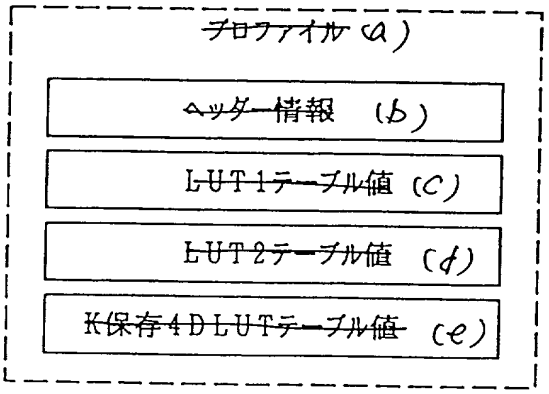
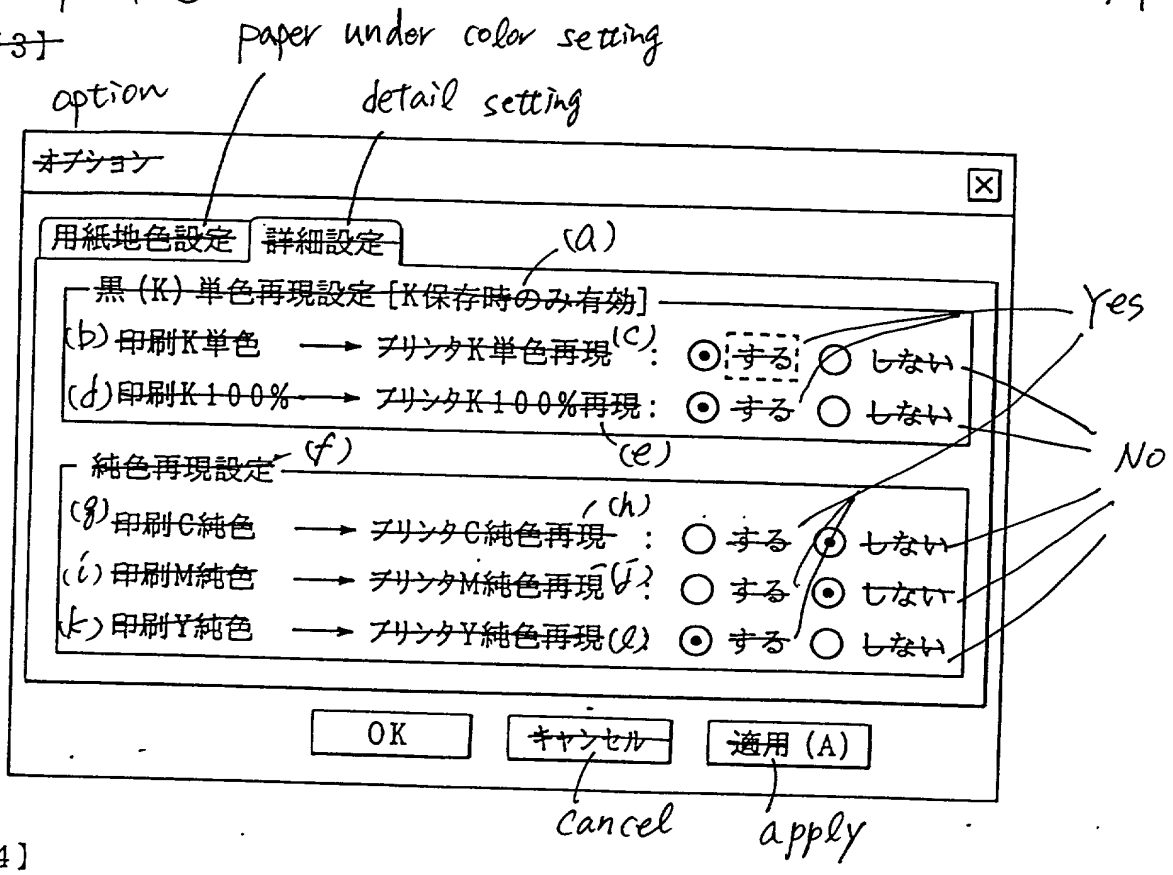


FIG. 2

(a) PROFILE
(b) HEADER INFORMATION
(c) LUT1 TABLE VALUE
(d) LUT2 TABLE VALUE
(e) K PRESERVATION 4DLUT TABLE VALUE

FIG. 3

【図3】


option
paper under color setting
detail setting
オプション
用紙地色設定
詳細設定
(a)
黒(K)単色再現設定[K保存時のみ有効]
(b) 印刷K単色 → プリンタK単色再現 (c): する しない
(d) 印刷K100% → プリンタK100%再現: する しない
(e)
(f)
純色再現設定
(g) 印刷C純色 → プリンタC純色再現 (h): する しない
(i) 印刷M純色 → プリンタM純色再現 (j): する しない
(k) 印刷Y純色 → プリンタY純色再現 (l): する しない
Yes
No
OK
キャンセル
適用(A)
cancel
apply

【図4】

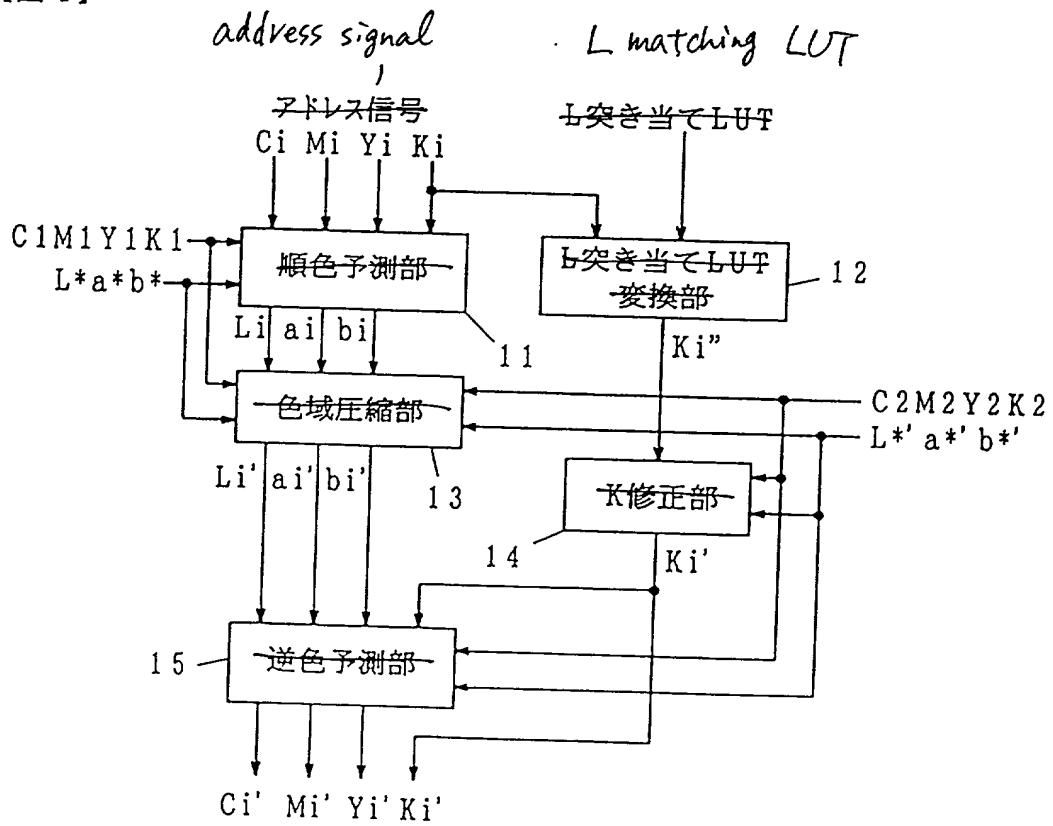

address signal
L matching LUT
アドレス信号
L突き当てLUT
Ci Mi Yi Ki
C1M1Y1K1
L*a*b*
順色予測部
L突き当てLUT
変換部
12
Li ai bi
11
Ki"
色域圧縮部
C2M2Y2K2
L*' a*' b*'
Li' ai' bi'
13
K修正部
14
Ki'
15
逆色予測部
Ci' Mi' Yi' Ki'

FIG. 3

(a) BLACK (K) SINGLE COLOR REPRODUCTION SETTING [VALID ONLY AT K PRESERVATION TIME]
(b) PRINT K SINGLE COLOR
(c) PRINTER K SINGLE COLOR REPRODUCTION
(d) PRINT K 100%
(e) PRINTER K 100% REPRODUCTION
(f) PURE COLOR REPRODUCTION SETTING
(g) PRINT C PURE COLOR
(h) PRINTER C PURE COLOR REPRODUCTION
(i) PRINT M PURE COLOR
(j) PRINTER M PURE COLOR REPRODUCTION
(k) PRINT Y PURE COLOR
(l) PRINTER Y PURE COLOR REPRODUCTION

FIG. 4

11 NORMAL COLOR PREDICTION SECTION
12 L MATCHING LUT CONVERSION SECTION
13 COLOR GAMUT COMPRESSION SECTION
14 K CORRECTION SECTION
15 INVERSE COLOR PREDICTION SECTION

FIG. 5

【図5】

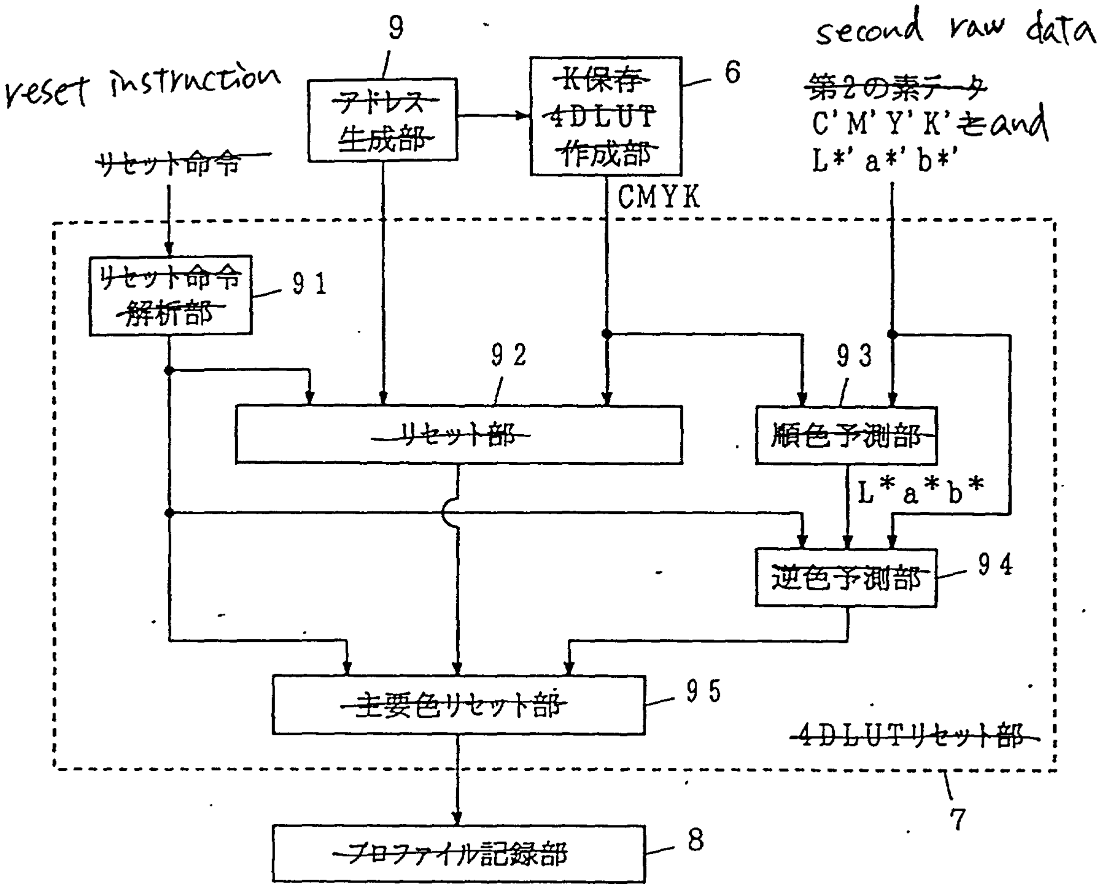


FIG 5

6 K PRESERVATION 4DLUT PREPARATION SECTION
7 4DLUT RESET SECTION
8 PROFILE RECORD SECTION
9 ADDRESS GENERATION SECTION
91 RESET INSTRUCTION INTERPRETATION SECTION
92 RESET SECTION
93 NORMAL COLOR PREDICTION SECTION
94 INVERSE COLOR PREDICTION SECTION
95 PRIME COLOR RESET SECTION

FIG. 6

[図6]

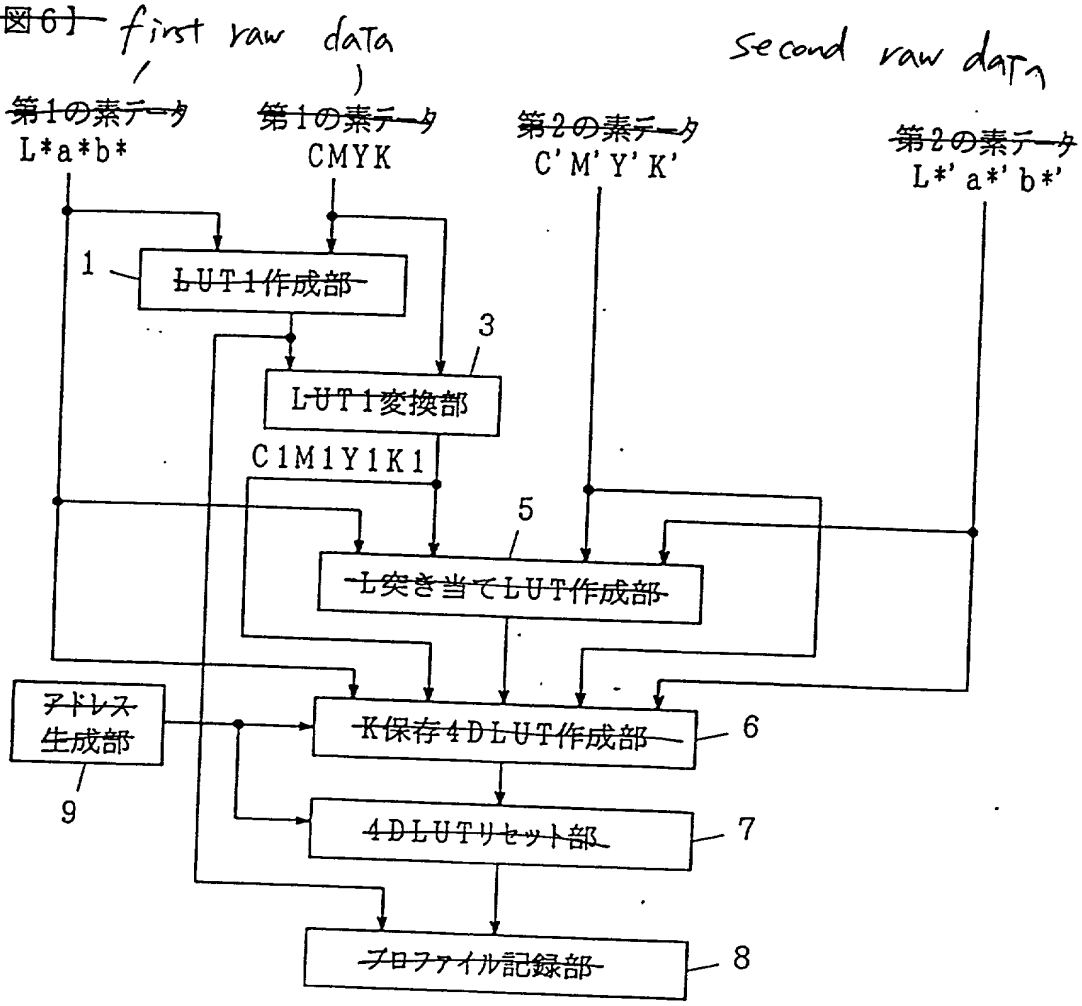


FIG. 6

1 LUT1 PREPARATION SECTION
3 LUT1 CONVERSION SECTION
5 L MATCHING LUT PREPARATION SECTION
6 K PRESERVATION 4DLUT PREPARATION SECTION
7 4DLUT RESET SECTION
8 PROFILE RECORD SECTION
9 ADDRESS GENERATION SECTION

FIG. 7

【図7】

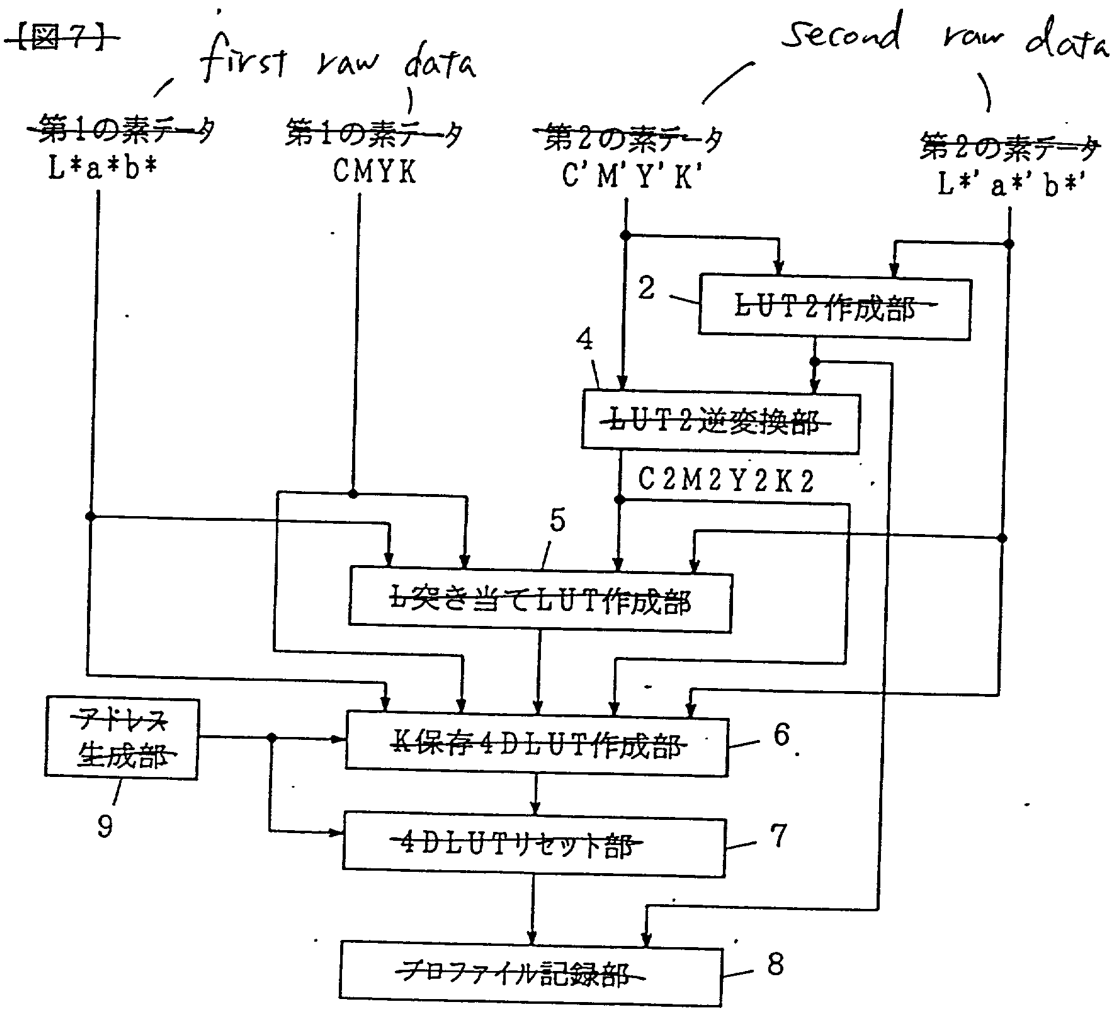


FIG. 7

2 LUT2 PREPARATION SECTION

4 LUT2 INVERSE CONVERSION SECTION

5 L MATCHING LUT PREPARATION SECTION

6 K PRESERVATION 4DLUT PREPARATION SECTION

7 4DLUT RESET SECTION

8 PROFILE RECORD SECTION

9 ADDRESS GENERATION SECTION

FIG. 8

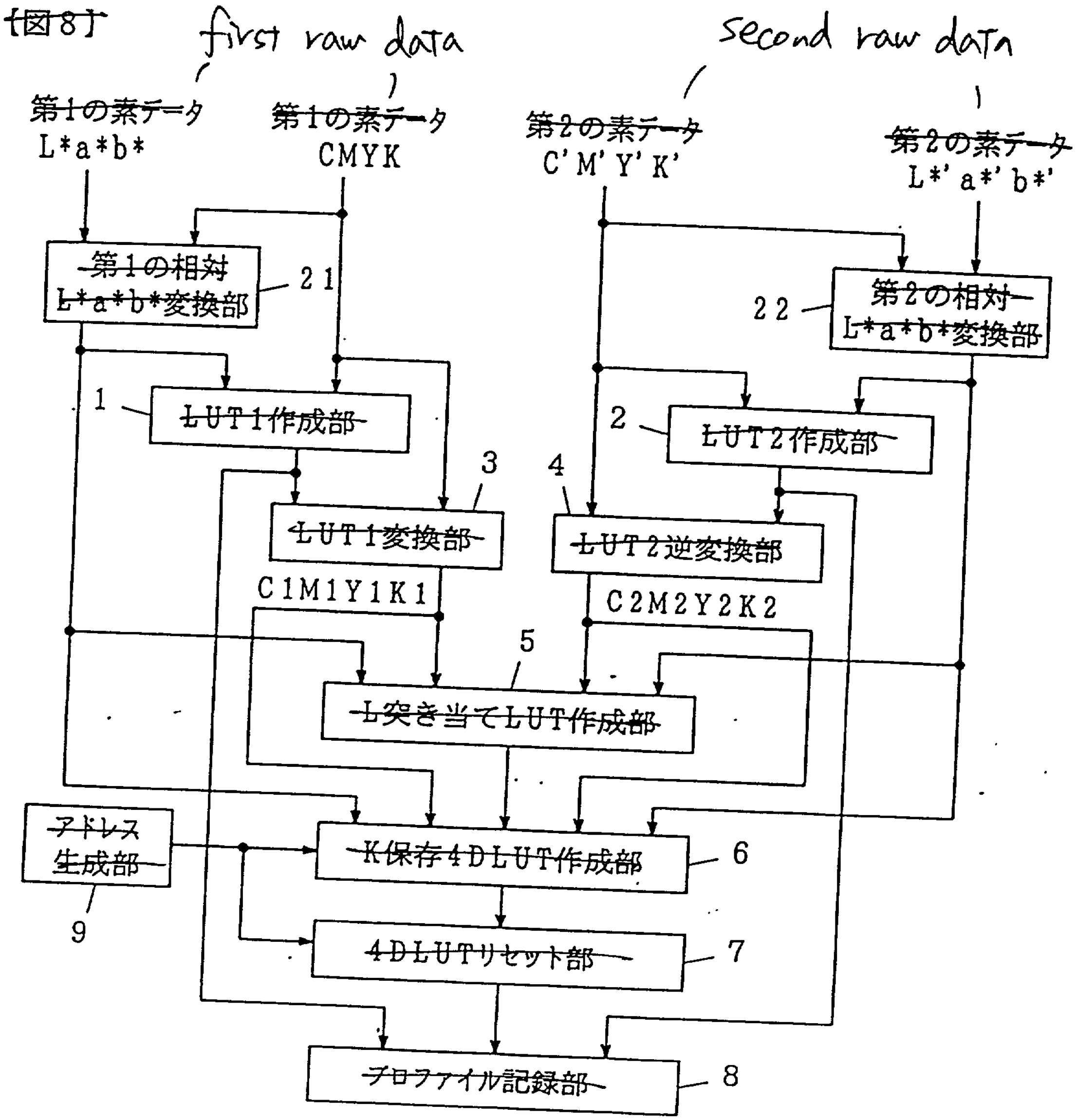


FIG 8

1 LUT1 PREPARATION SECTION
2 LUT2 PREPARATION SECTION
3 LUT1 CONVERSION SECTION
4 LUT2 INVERSE CONVERSION SECTION
5 L MATCHING LUT PREPARATION SECTION
6 K PRESERVATION 4DLUT PREPARATION SECTION
7 4DLUT RESET SECTION
8 PROFILE RECORD SECTION
9 ADDRESS GENERATION SECTION
21 FIRST RELATIVE L*a*b* CONVERSION SECTION
22 SECOND RELATIVE L*a*b* CONVERSION SECTION

FIG. 9

7/19

【図9】

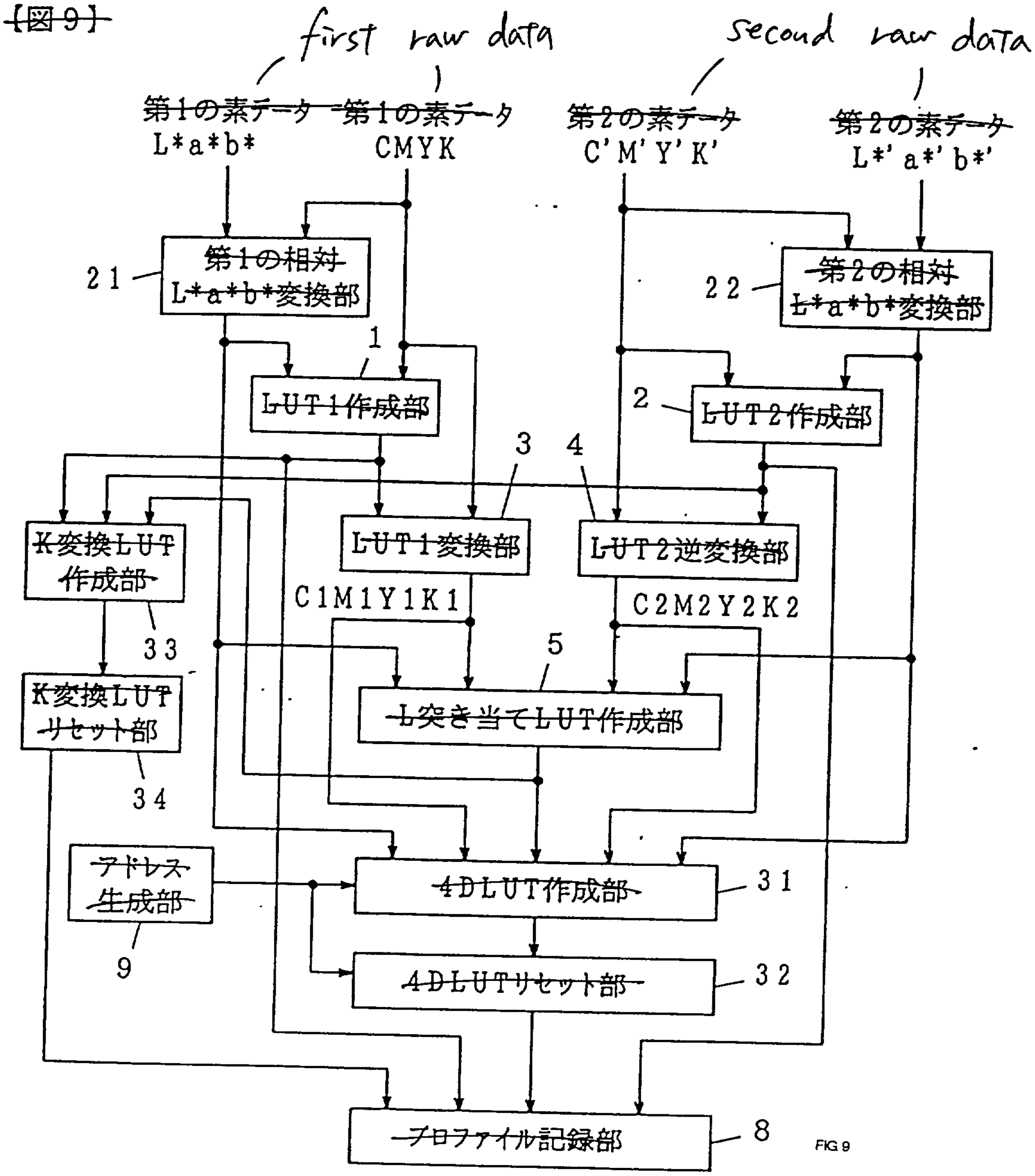


FIG 9

1 LUT1 PREPARATION SECTION
2 LUT2 PREPARATION SECTION
3 LUT1 CONVERSION SECTION
4 LUT2 INVERSE CONVERSION SECTION
5 L MATCHING LUT PREPARATION SECTION
8 PROFILE RECORD SECTION
9 ADDRESS GENERATION SECTION
21 FIRST RELATIVE L*a*b* CONVERSION SECTION
22 SECOND RELATIVE L*a*b* CONVERSION SECTION
31 4DLUT PREPARATION SECTION
32 4DLUT RESET SECTION
33 K CONVERSION LUT PREPARATION SECTION
34 K CONVERSION LUT RESET SECTION

FIG. 10

~~【図10】~~

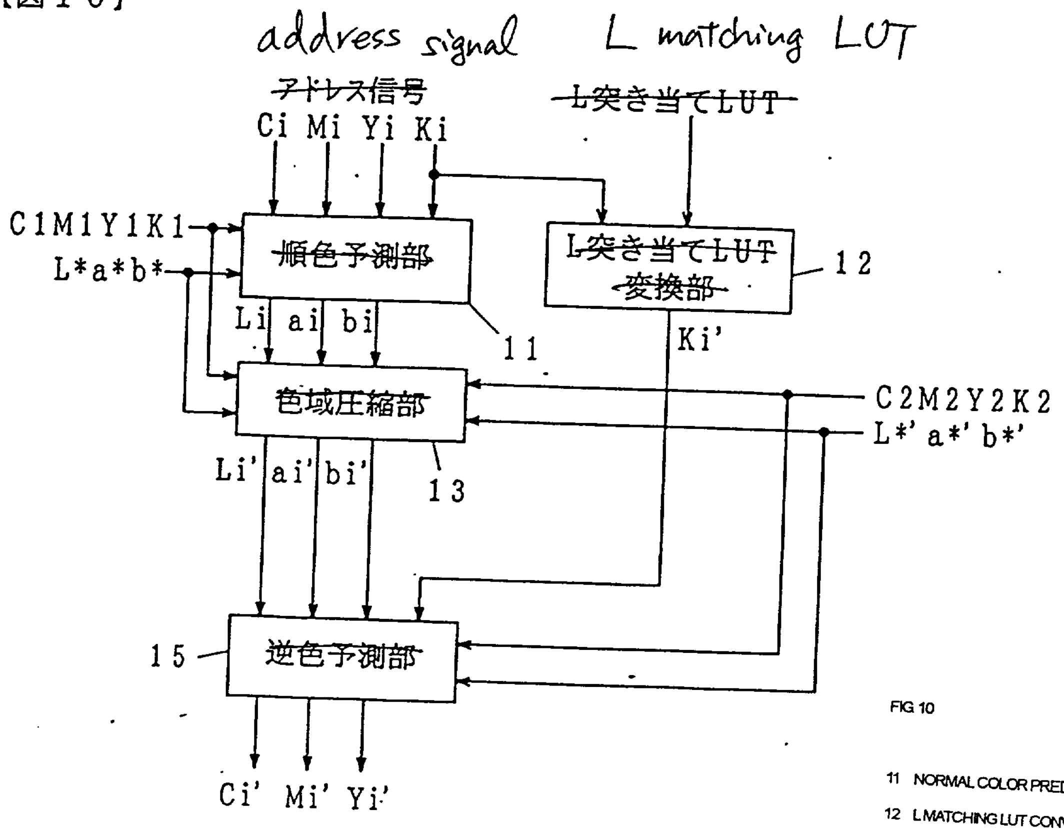


FIG 10

11 NORMAL COLOR PREDICTION SECTION
12 L MATCHING LUT CONVERSION SECTION
13 COLOR GAMUT COMPRESSION SECTION
15 INVERSE COLOR PREDICTION SECTION

~~【図11】~~

FIG. 11 (A)

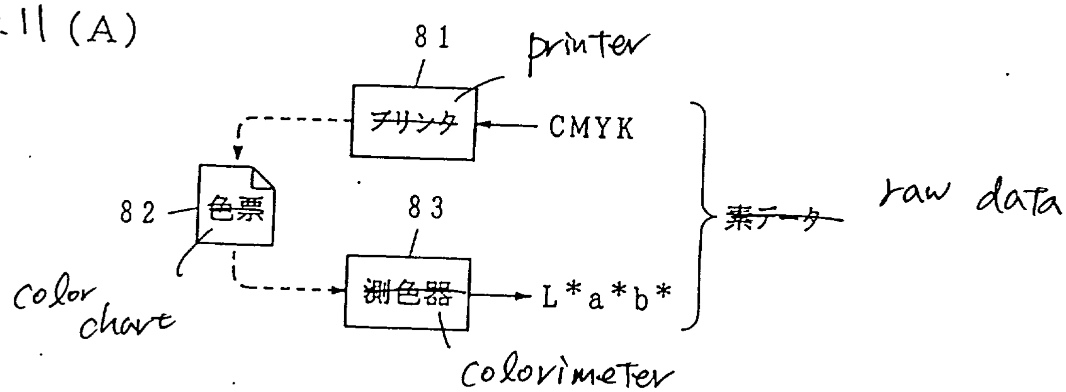
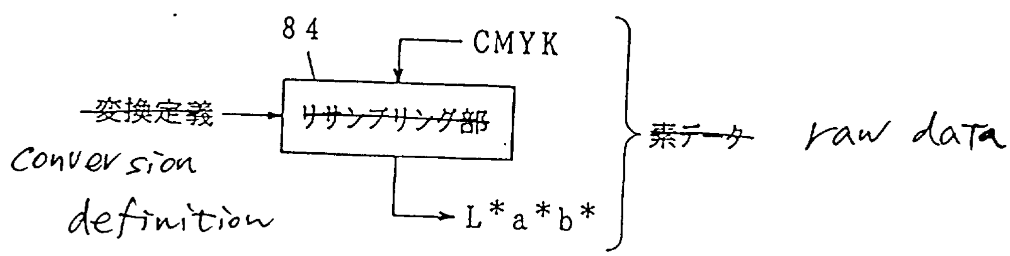


FIG. 11 (B)



~~【図12】~~ FIG. 12

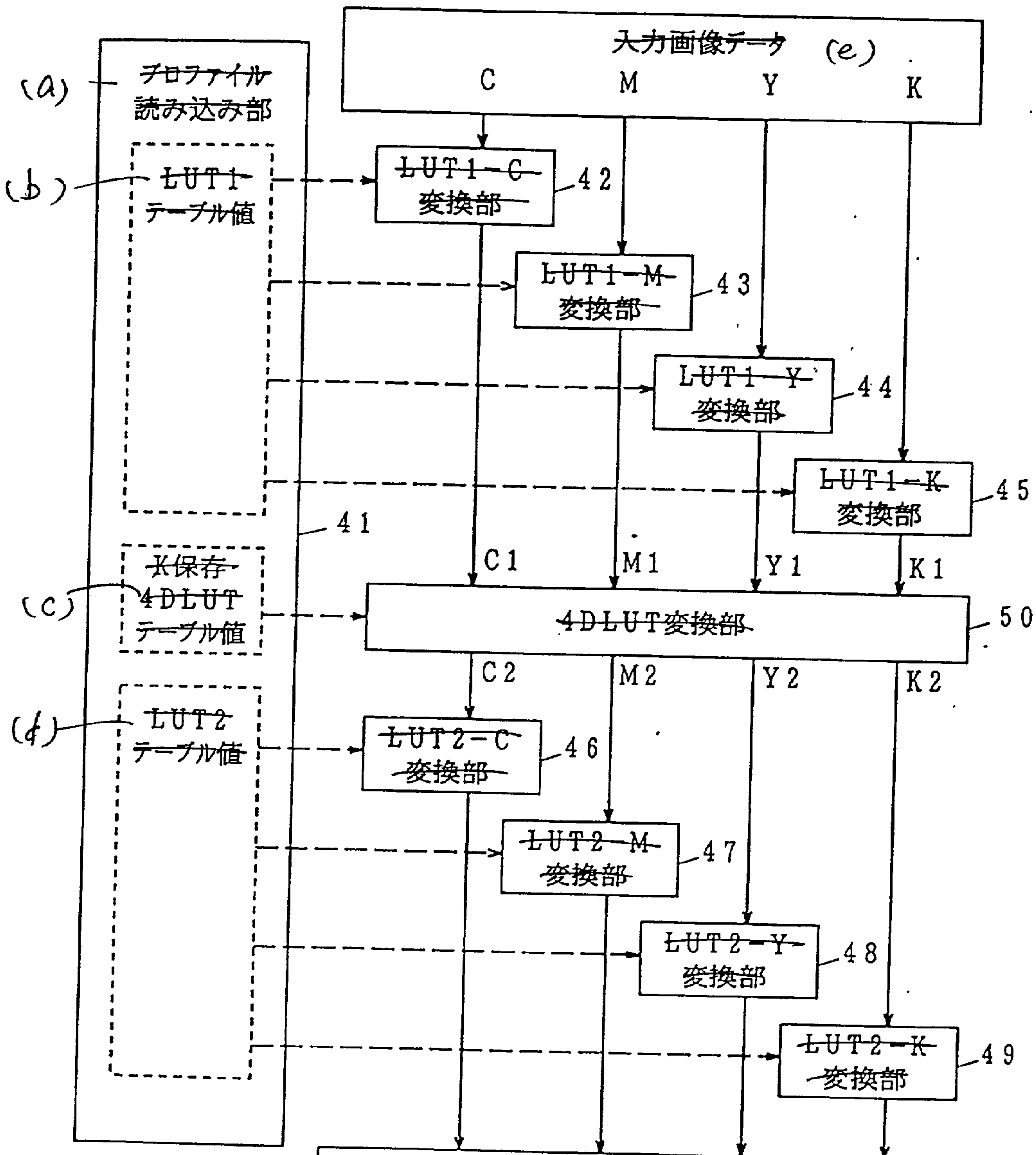


FIG 12

42 LUT1-C CONVERSION SECTION
43 LUT1-M CONVERSION SECTION
44 LUT1-Y CONVERSION SECTION
45 LUT1-K CONVERSION SECTION
46 LUT2-C CONVERSION SECTION
47 LUT2-M CONVERSION SECTION
48 LUT2-Y CONVERSION SECTION
49 LUT2-K CONVERSION SECTION
50 4DLUT CONVERSION SECTION

(a) PROFILE READ SECTION
(b) LUT1 TABLE VALUE
(c) K PRESERVATION 4DLUT TABLE VALUE
(d) LUT2 TABLE VALUE
(e) INPUT IMAGE DATA
(f) OUTPUT IMAGE DATA

【図１３】FIG. 13

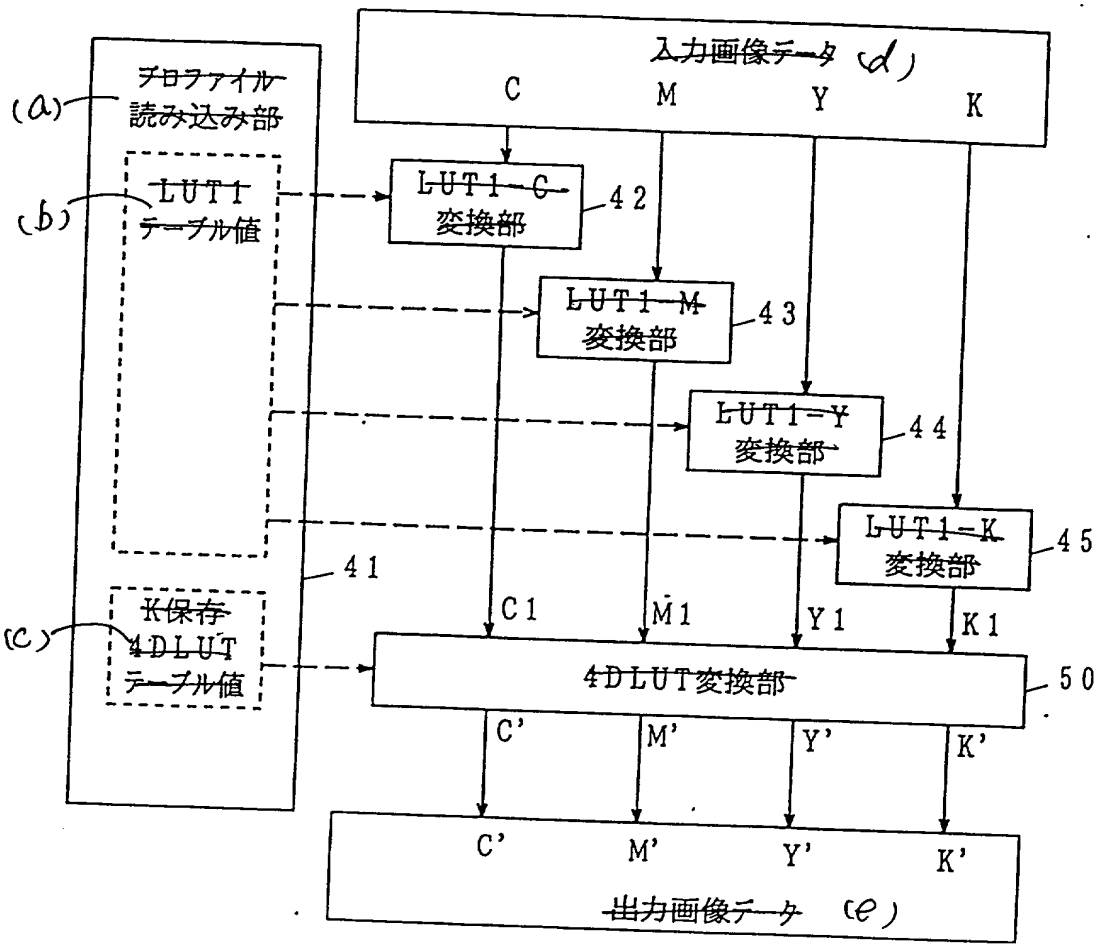


FIG. 13

42 LUT1-C CONVERSION SECTION

43 LUT1-M CONVERSION SECTION

44 LUT1-Y CONVERSION SECTION

45 LUT1-K CONVERSION SECTION

50 4DLUT CONVERSION SECTION

(a) PROFILE READ SECTION

(b) LUT1 TABLE VALUE

(c) K PRESERVATION 4DLUT TABLE VALUE

(d) INPUT IMAGE DATA

(e) OUTPUT IMAGE DATA

FIG.14

[図14]

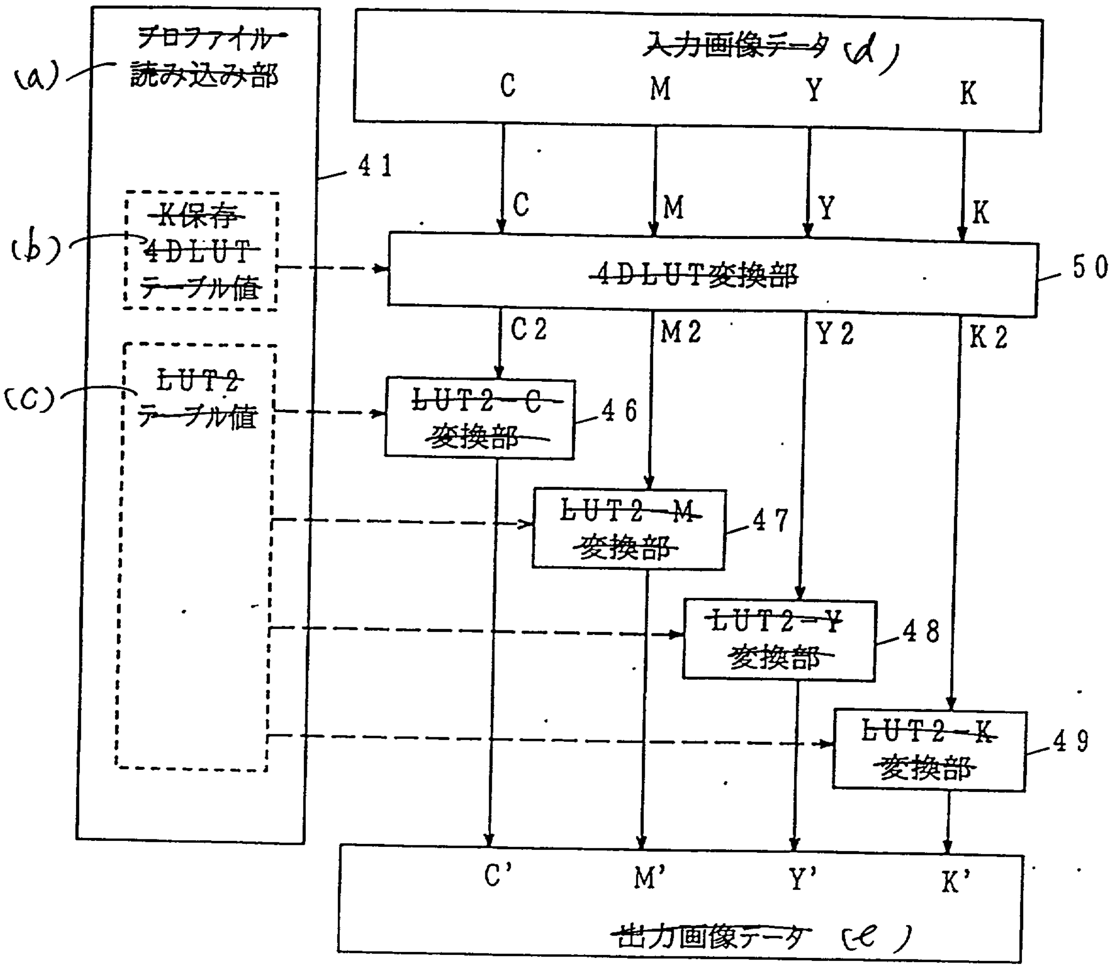


FIG 14

46 LUT2-C CONVERSION SECTION

47 LUT2-M CONVERSION SECTION

48 LUT2-Y CONVERSION SECTION

49 LUT2-K CONVERSION SECTION

50 4DLUT CONVERSION SECTION

(a) PROFILE READ SECTION

(b) K PRESERVATION 4DLUT TABLE VALUE

(c) LUT2 TABLE VALUE

(d) INPUT IMAGE DATA

(e) OUTPUT IMAGE DATA

FIG. 15

~~【図15】~~

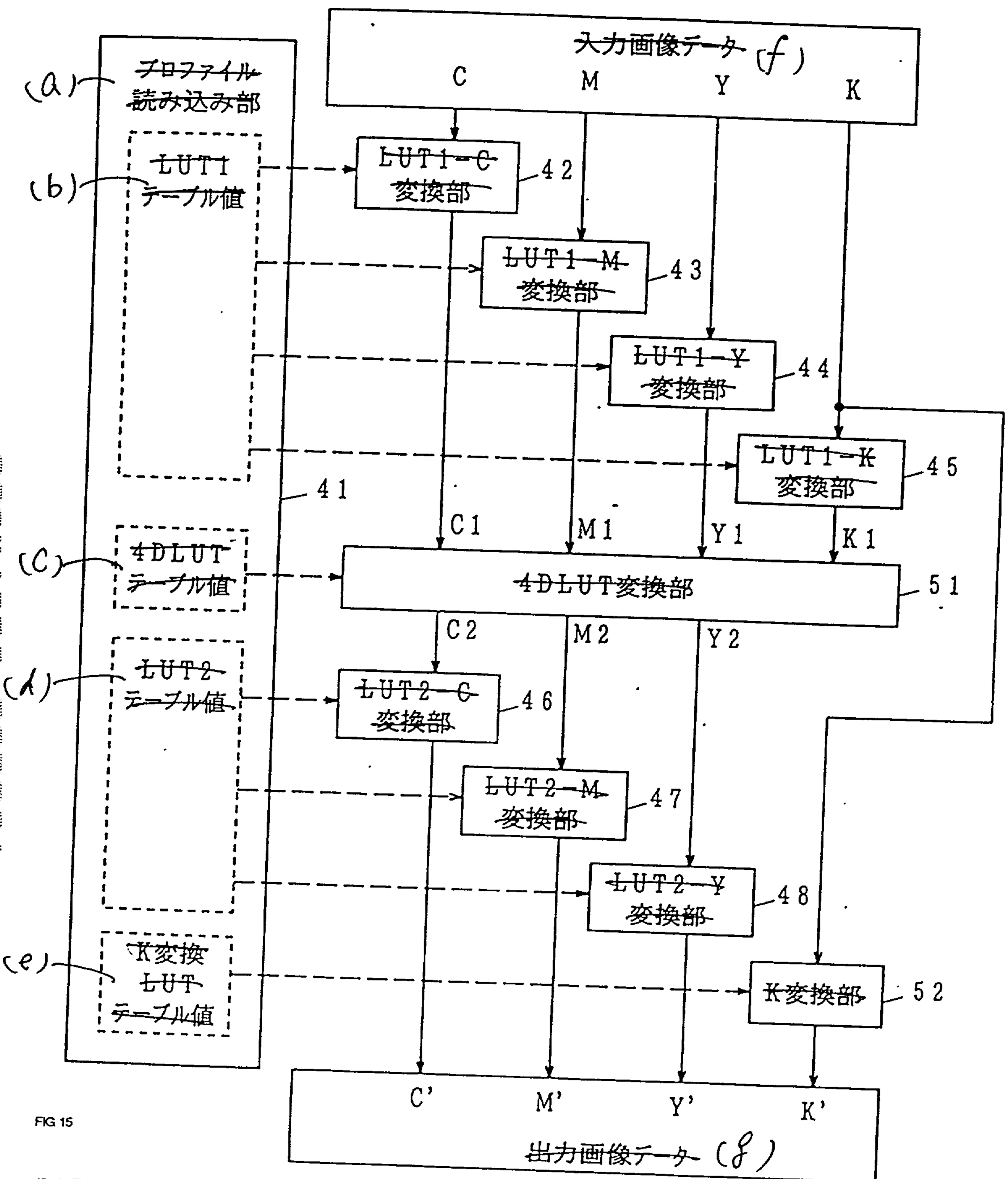


FIG 15

42 LUT1-C CONVERSION SECTION
43 LUT1-M CONVERSION SECTION
44 LUT1-Y CONVERSION SECTION
45 LUT1-K CONVERSION SECTION
46 LUT2-C CONVERSION SECTION
47 LUT2-M CONVERSION SECTION
48 LUT2-Y CONVERSION SECTION
51 4DLUT CONVERSION SECTION
52 K CONVERSION SECTION

(a) PROFILE READ SECTION
(b) LUT1 TABLE VALUE
(c) 4DLUT TABLE VALUE
(d) LUT2 TABLE VALUE
(e) K CONVERSION LUT TABLE VALUE
(f) INPUT IMAGE DATA
(g) OUTPUT IMAGE DATA

FIG. 16

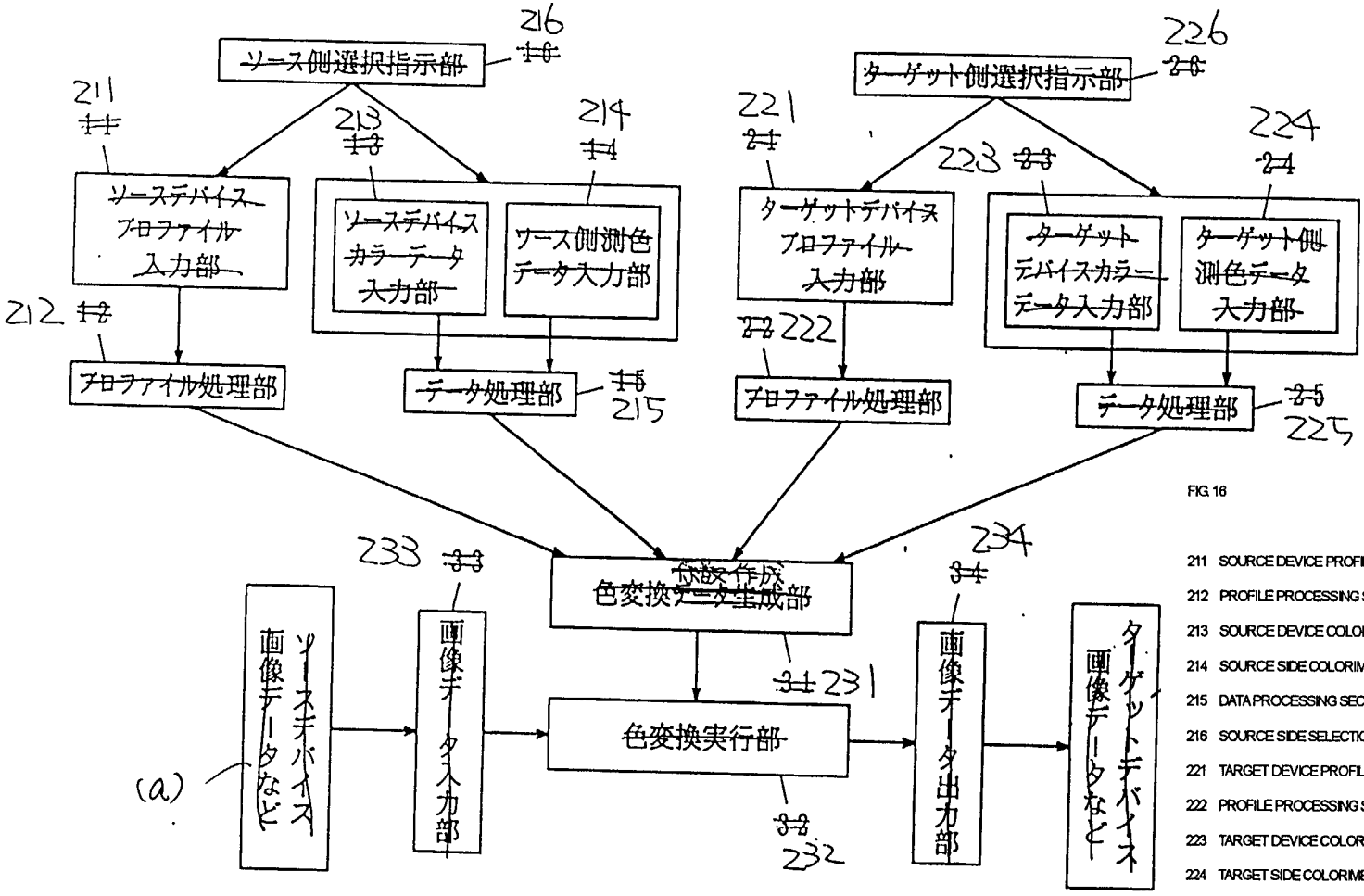


FIG. 16

211 SOURCE DEVICE PROFILE INPUT SECTION
212 PROFILE PROCESSING SECTION
213 SOURCE DEVICE COLOR DATA INPUT SECTION
214 SOURCE SIDE COLORIMETRIC DATA INPUT SECTION
215 DATA PROCESSING SECTION
216 SOURCE SIDE SELECTION INSTRUCTION SECTION
221 TARGET DEVICE PROFILE INPUT SECTION
222 PROFILE PROCESSING SECTION
223 TARGET DEVICE COLOR DATA INPUT SECTION
224 TARGET SIDE COLORIMETRIC DATA INPUT SECTION
225 DATA PROCESSING SECTION
226 TARGET SIDE SELECTION INSTRUCTION SECTION
231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION
232 COLOR CONVERSION EXECUTION SECTION
233 IMAGE DATA INPUT SECTION
234 IMAGE DATA OUTPUT SECTION

(a) SOURCE DEVICE IMAGE DATA, ETC.,
(b) TARGET DEVICE IMAGE DATA, ETC.,

FIG. 17(A)

(a) SELECT PARAMETER INPUT MEANS

(b) INPUT FROM ICC PROFILE

(c) INPUT FROM DATA PAIR

(d) WHEN INPUT FROM DATA PAIR IS SELECTED

(e) WHEN INPUT FROM ICC PROFILE IS SELECTED

FIG.17 (B)

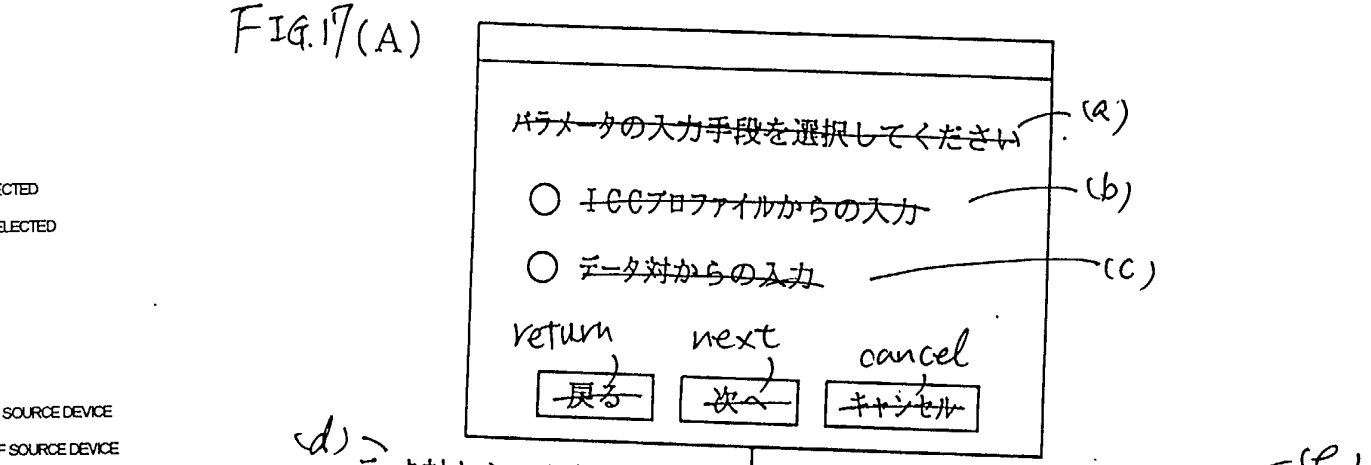
(f) SPECIFY DEVICE COLOR DATA FILE OF SOURCE DEVICE

(g) SPECIFY COLORIMETRIC DATA FILE OF SOURCE DEVICE

FIG.17 (C)

(h) SPECIFY ICC PROFILE OF SOURCE DEVICE

FIG.17(A)



(d) データ対からの入力の場合

(e) ICCプロファイルからの入力の場合

FIG.17(B)

(B)

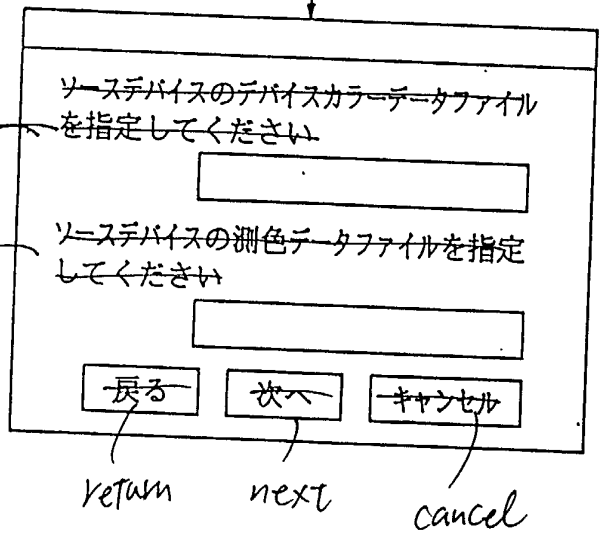


FIG.17(C)

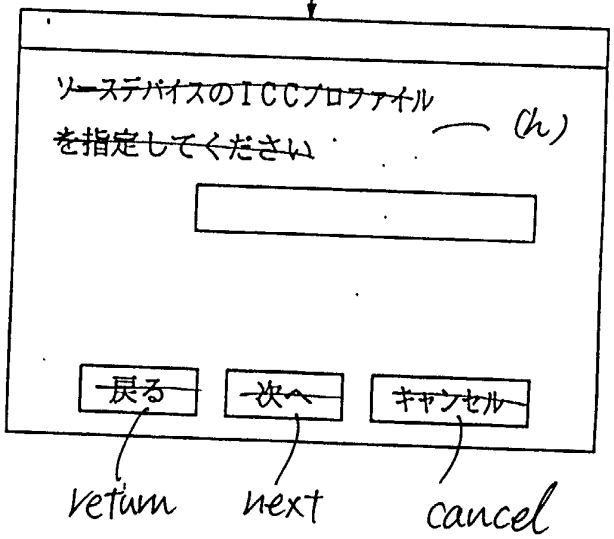


FIG. 18

15/19

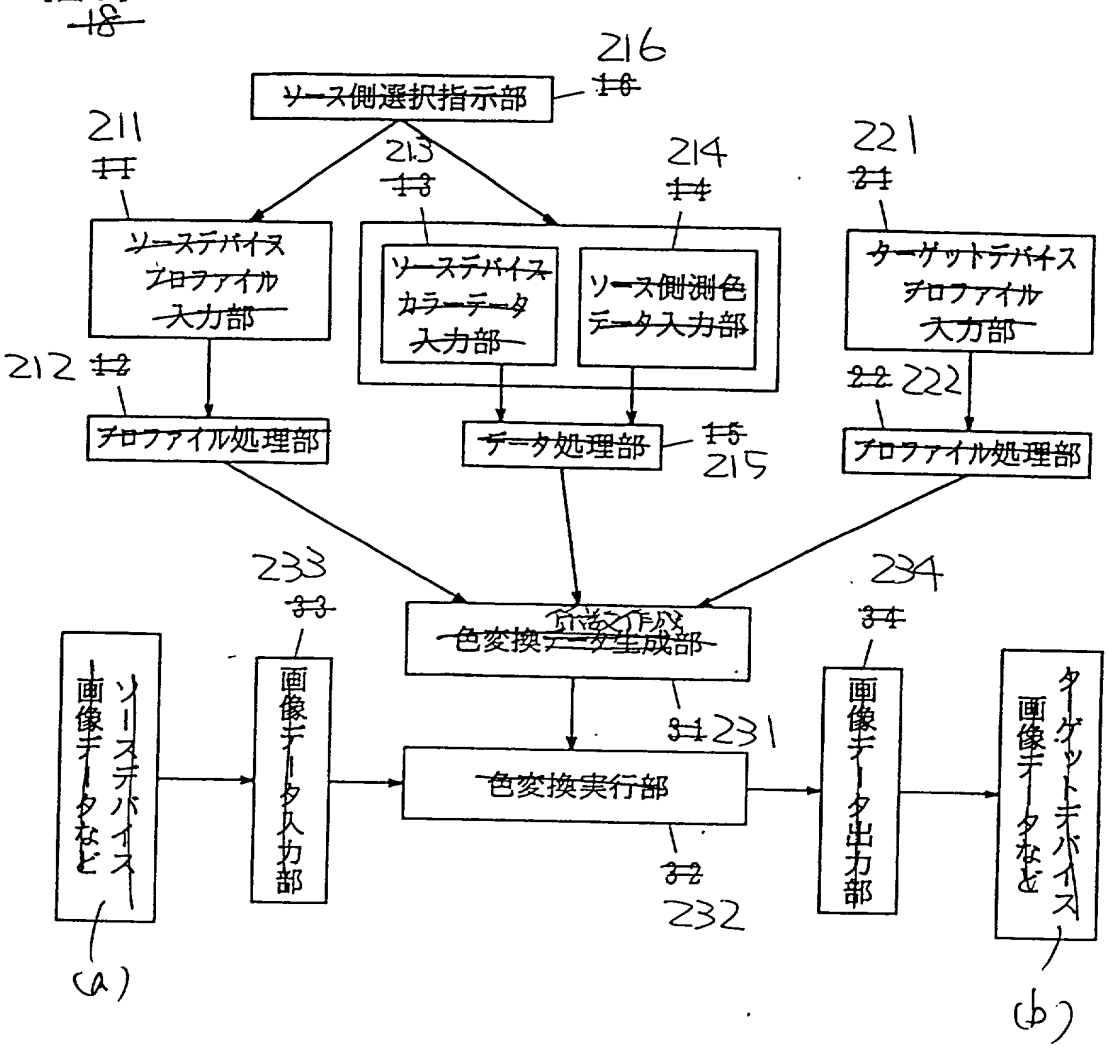


FIG. 18

211 SOURCE DEVICE PROFILE INPUT SECTION

212 PROFILE PROCESSING SECTION

213 SOURCE DEVICE COLOR DATA INPUT SECTION

214 SOURCE SIDE COLORIMETRIC DATA INPUT SECTION

215 DATA PROCESSING SECTION

216 SOURCE SIDE SELECTION INSTRUCTION SECTION

221 TARGET DEVICE PROFILE INPUT SECTION

222 PROFILE PROCESSING SECTION

226 TARGET SIDE SELECTION INSTRUCTION SECTION

231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION

232 COLOR CONVERSION EXECUTION SECTION

233 IMAGE DATA INPUT SECTION

234 IMAGE DATA OUTPUT SECTION

(a) SOURCE DEVICE IMAGE DATA, ETC.,

(b) TARGET DEVICE IMAGE DATA, ETC.,

FIG. 19

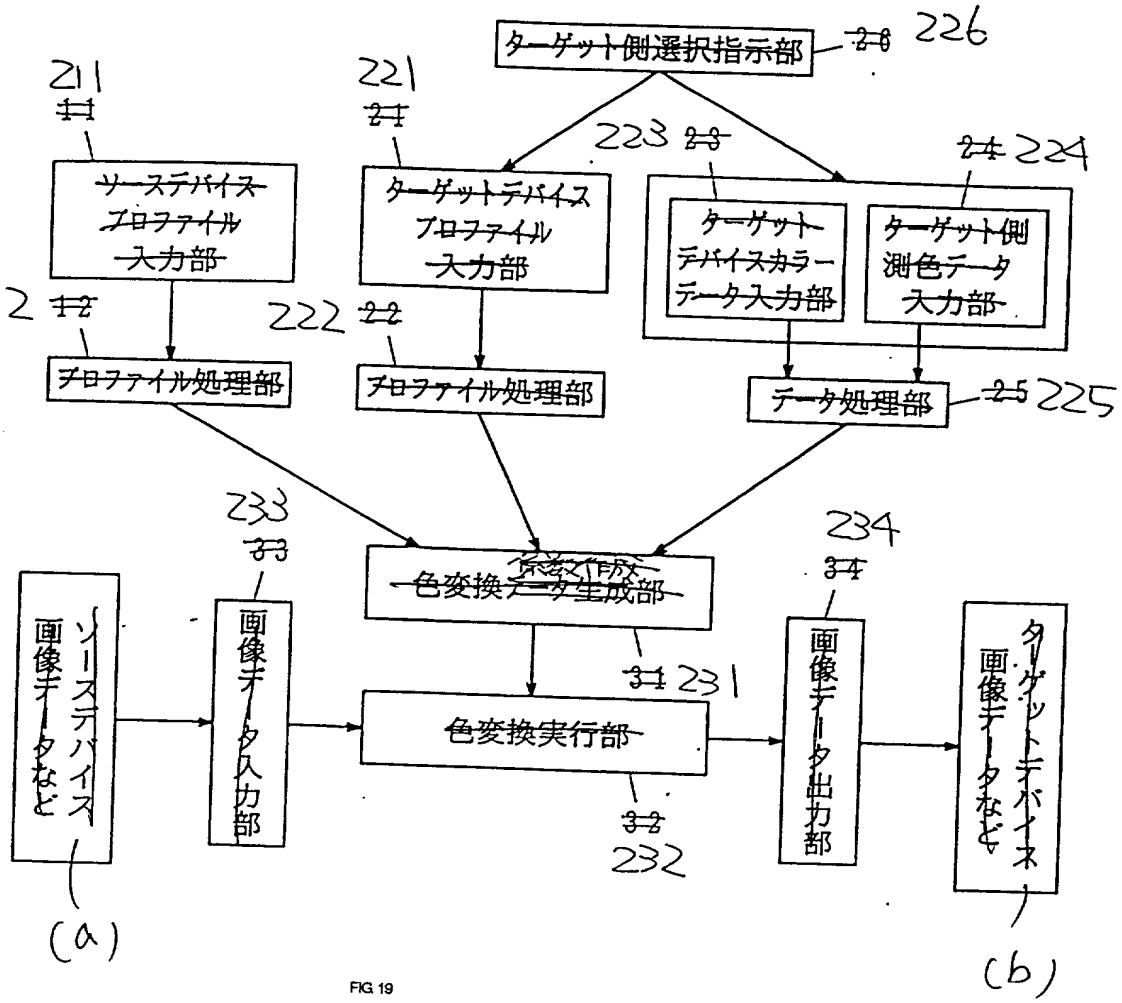


FIG. 19

211 SOURCE DEVICE PROFILE INPUT SECTION

212 PROFILE PROCESSING SECTION

221 TARGET DEVICE PROFILE INPUT SECTION

222 PROFILE PROCESSING SECTION

223 TARGET DEVICE COLOR DATA INPUT SECTION

224 TARGET SIDE COLORIMETRIC DATA INPUT SECTION

225 DATA PROCESSING SECTION

226 TARGET SIDE SELECTION INSTRUCTION SECTION

231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION

232 COLOR CONVERSION EXECUTION SECTION

233 IMAGE DATA INPUT SECTION

234 IMAGE DATA OUTPUT SECTION

(a) SOURCE DEVICE IMAGE DATA, ETC.,

(b) TARGET DEVICE IMAGE DATA, ETC.,

FIG. 20

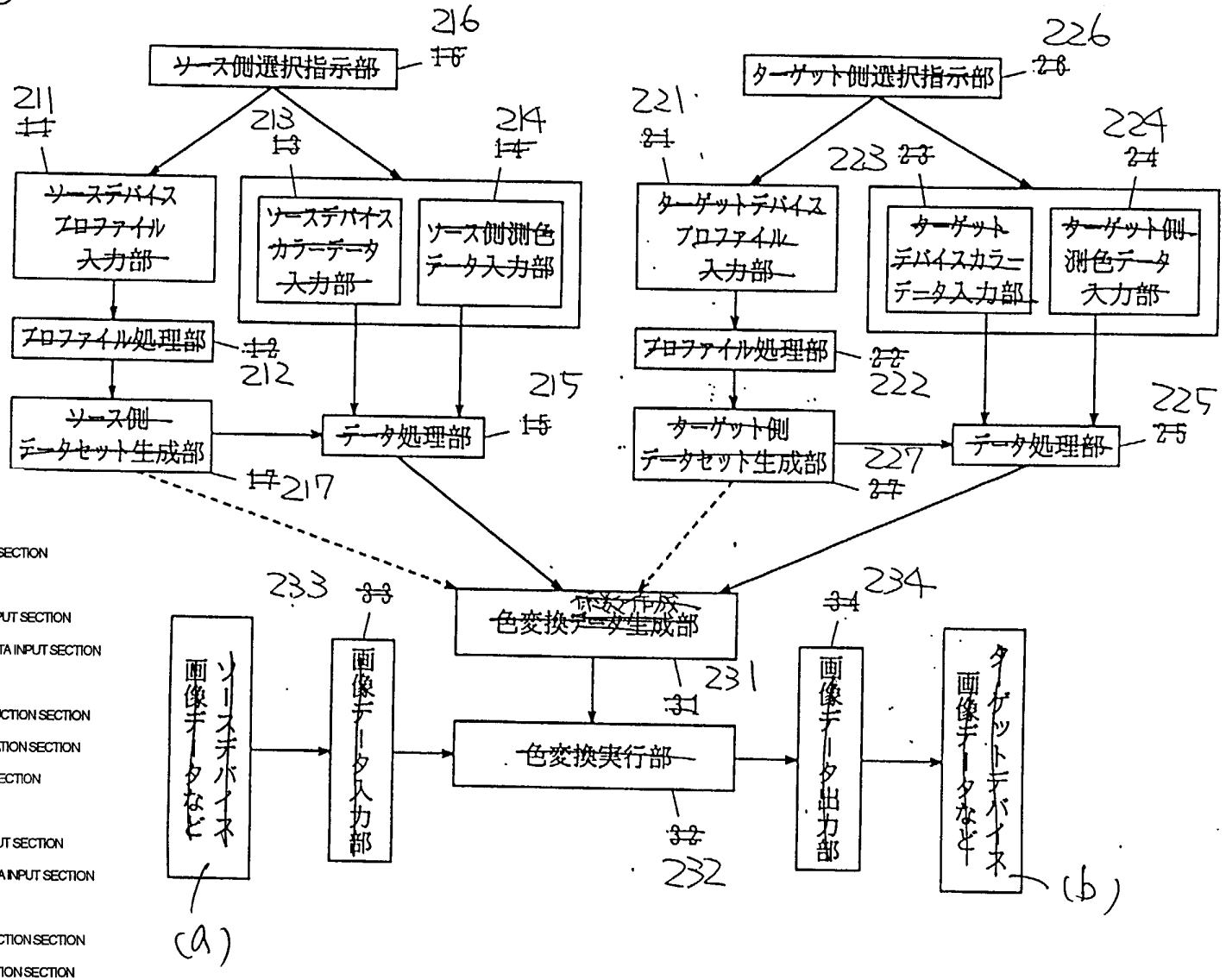


FIG. 20

211 SOURCE DEVICE PROFILE INPUT SECTION
212 PROFILE PROCESSING SECTION
213 SOURCE DEVICE COLOR DATA INPUT SECTION
214 SOURCE SIDE COLORIMETRIC DATA INPUT SECTION
215 DATA PROCESSING SECTION
216 SOURCE SIDE SELECTION INSTRUCTION SECTION
217 SOURCE SIDE DATA SET PREPARATION SECTION
221 TARGET DEVICE PROFILE INPUT SECTION
222 PROFILE PROCESSING SECTION
223 TARGET DEVICE COLOR DATA INPUT SECTION
224 TARGET SIDE COLORIMETRIC DATA INPUT SECTION
225 DATA PROCESSING SECTION
226 TARGET SIDE SELECTION INSTRUCTION SECTION
227 TARGET SIDE DATA SET PREPARATION SECTION
231 COLOR CONVERSION COEFFICIENT PREPARATION SECTION
232 COLOR CONVERSION EXECUTION SECTION
233 IMAGE DATA INPUT SECTION
234 IMAGE DATA OUTPUT SECTION

(a) SOURCE DEVICE IMAGE DATA, ETC.,
(b) TARGET DEVICE IMAGE DATA, ETC.,

FIG. 21

18/19

~~[図1-6]~~
~~21~~

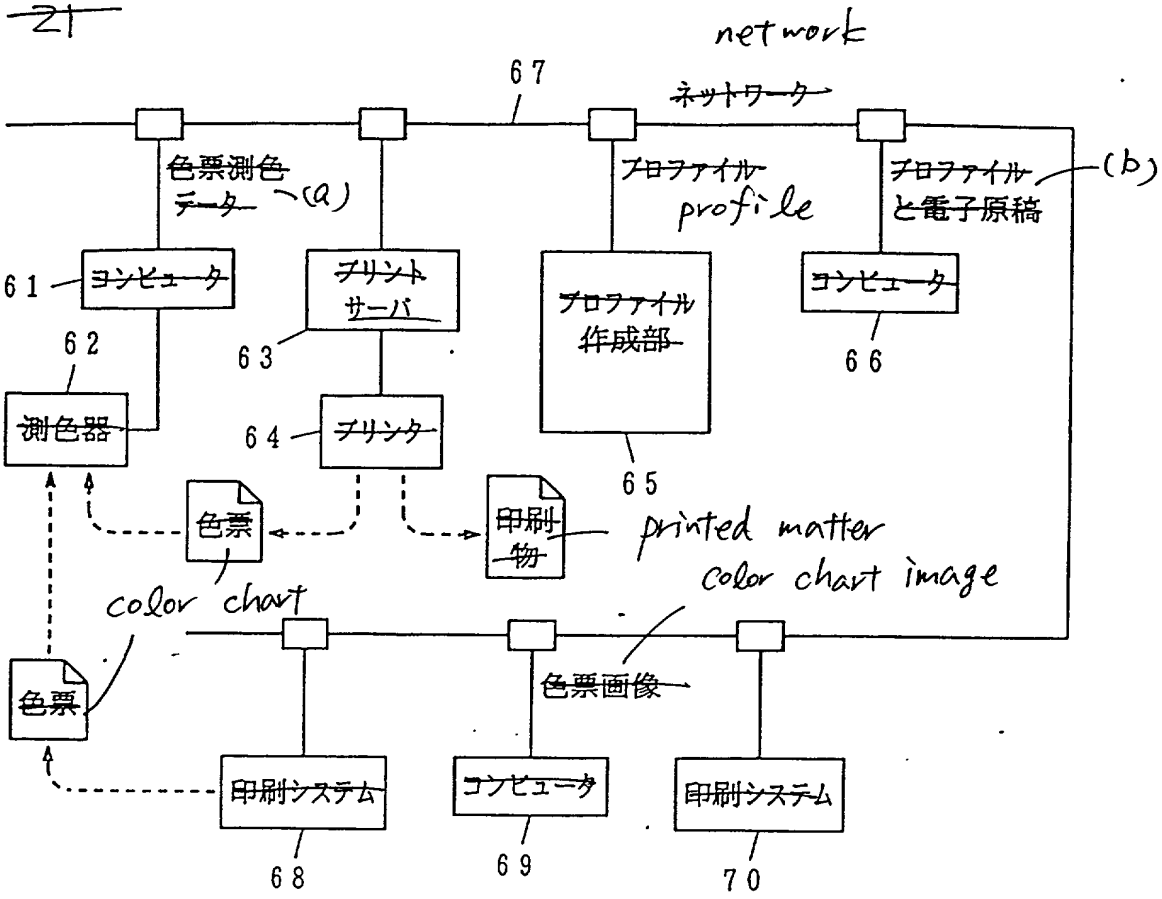
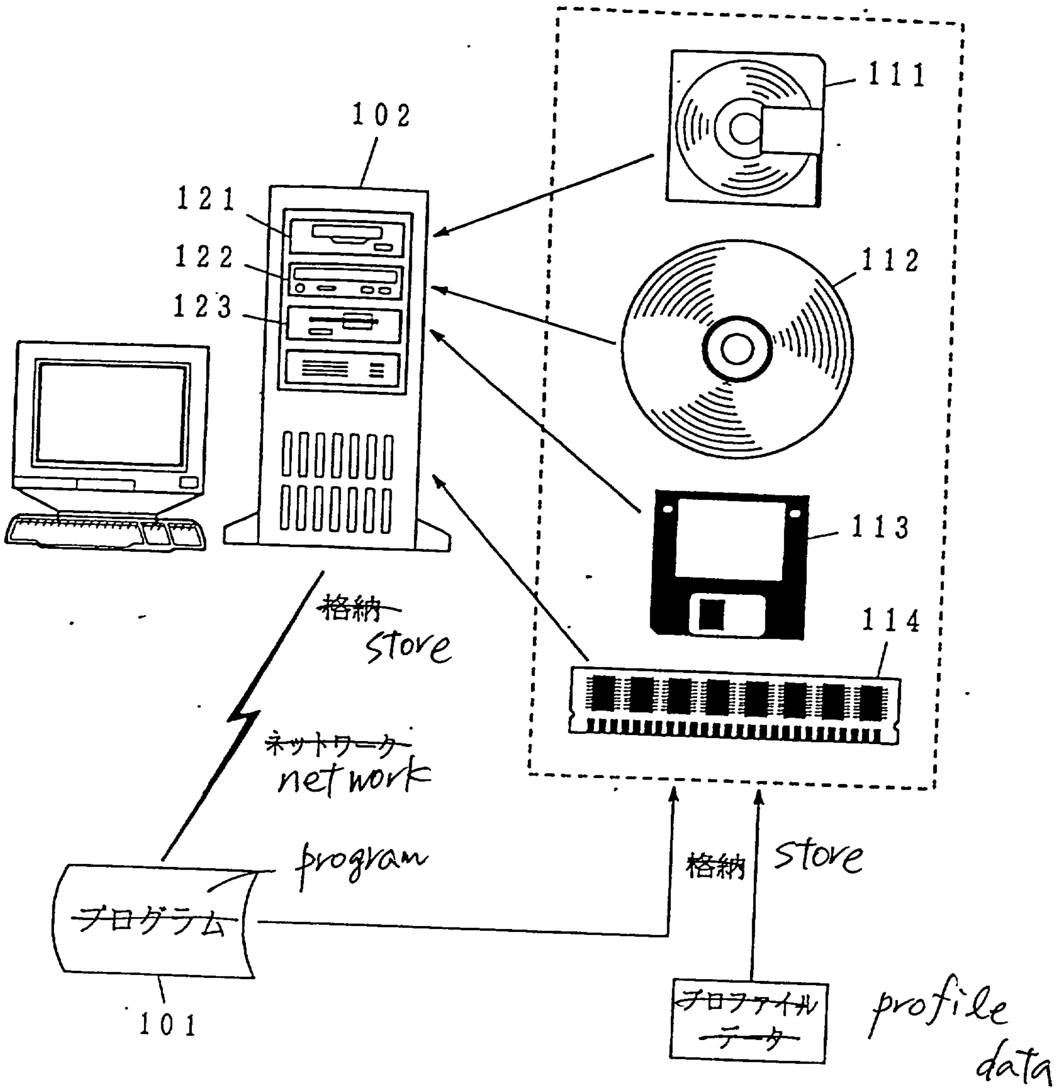


FIG. 21

61 COMPUTER
62 COLORIMETER
63 PRINT SERVER
64 PRINTER
65 PROFILE PREPARATION SECTION
66 COMPUTER
68 PRINT SYSTEM
69 COMPUTER
70 PRINT SYSTEM

(a) COLORIMETRIC DATA OF COLOR CHART
(b) PROFILE AND ELECTRONIC ORIGINAL

~~【図17】~~ FIG. 22


111
112
113
114
102
121
122
123
101
~~格納~~ store
~~ネットワーク~~ network
~~プログラム~~ program
格納 store
~~プロファイル データ~~ profile data